

Amendments to the Claims:

Please cancel Claims 1 through 6 without prejudice to or disclaimer of the subject matter recited therein.

Please add Claims 7 through 12 to read, as follows.

Claims 1 through 6. **(Canceled)**

7. **(New)** An image forming apparatus comprising:

toner image forming means for forming a toner image on an image bearing member;

charging means for charging the toner image on said image bearing member;

a transfer member for transferring the toner image charged by said charging means from said image bearing member to a transfer medium at a transfer portion;

detection means for detecting a relation between a voltage and a current on applying a monitor bias to the transfer medium, when a region of said image bearing member charged by said charging means is present in the transfer portion; and

control means for variably controlling the transfer bias based on a detection result by said detection means.

8. **(New)** An image forming apparatus according to claim 7, wherein said detection means detects the relation between the voltage and the current by applying a plurality of different monitor biases.

9. (New) An image forming apparatus according to claim 8, wherein said transfer member is a roller, and said monitor bias is applied while said transfer member makes at least one rotation.

10. (New) An image forming apparatus comprising:

- a photosensitive member for bearing a toner image;
- charging means for charging said photosensitive member;
- electrosensitive latent image forming means for exposing said photosensitive member charged by said charging means to form an electrostatic latent image;
- developing means for developing the electrostatic latent image to form the toner image;
- charge eliminating means for exposing said photosensitive member bearing the toner image to eliminate a charge from said photosensitive member;
- transfer member for transferring the toner image from said charge eliminated photosensitive member from which the charge has been eliminated to a transfer medium at a transfer portion by a transfer bias being applied;
- detection means for detecting a relation between a voltage and a current on applying a monitor bias to said transfer medium, when a region of said image bearing member which is charged by said charging means and from which a charge is eliminated by said charge eliminating means is present in the transfer portion; and
- control means for controlling variably the transfer bias based on a detection result by said detection means.

11. **(New)** An image forming apparatus according to claim 10, wherein said detection means performs detection by applying a plurality of different monitor biases.

12. **(New)** An image forming apparatus according to claim 11, wherein said transfer member is a roller, and the monitor bias is applied while said transfer member makes at least one rotation.